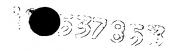
PATENT COOPERATION TREATY

PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.			
UNIW/ P29716PC	ACTION				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/GB 03/05436	12/12/2003	12/12/2002			
Applicant					
THE UNIVERSITY OF NOTTING	HAM				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	ority and is transmitted to the applicant			
This International Search Report consists It is also accompanied by	of a total of 5 heets. a copy of each prior art document cited in this	report.			
Basis of the report					
With regard to the language, the language in which it was filed, unl	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this			
was carried out on the basis of the	e sequence listing :	ternational application, the international search			
	nal application in written form.				
] —	rnational application in computer readable form	1.			
_	this Authority in written form. this Authority in computer readble form.				
	esequently furnished written sequence listing do	nes not go beyond the disclosure in the			
international application a	s filed has been furnished.				
X the statement that the info furnished	ormation recorded in computer readable form is	identical to the written sequence listing has be			
	nd unsearchable (See Box I).				
3. Unity of invention is lact	king (see Box II).				
4. With regard to the title,					
the text is approved as su					
[hed by this Authority to read as follows:				
PEPTIDE OLIGOMERS FOR	USE AS HIV VACCINES				
5. With regard to the abstract,					
X the text is approved as su		vesti annuari in Paul III. The conflict			
within one month from the	hed, according to Rule 38.2(b), by this Authority date of mailing of this international search repr	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.			
6. The figure of the drawings to be publi	ished with the abstract is Figure No.				
as suggested by the applic		None of the figures.			
because the applicant faile					
because this figure better characterizes the invention.					

PCT/GB 03/05436

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/16 C07K16/10

A61K39/395

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system tollowed by classification symbols) IPC 7 CO7K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BIOSIS

C DOCUM	C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
Х	US 5 185 147 A (PAPSIDERO) 9 February 1993 (1993-02-09) column 10	1-19, 23-28				
Х	US 5 750 332 A (F A ROBEY ET AL.) 12 May 1998 (1998-05-12) the whole document	1-19, 23 - 28				
Х	WO 94/03487 A (J. F. ZAGURY) 17 February 1994 (1994-02-17) page 25	1-19, 23-28				
P,X	WO 03/022879 A (POLYMUN SCIENTIFIC IMMUNBIOLOGISCHE FORSCHUNG GMBH) 20 March 2003 (2003-03-20) cited in the application the whole document	1-19, 23-28				
X Furt	her documents are listed in the continuation of box C. Patent family members are listed in	in annex.				

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the an which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
8 December 2004	30/12/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijt: Tet. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Masturzo, P



Inte nal Application No PCT/GB 03/05436

C (Continu	ALL A DOCUMENTS OCCUPANTS TO THE PROPERTY OF T	PCT/GB 03/05436
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	
Calegory	Challen of document, with indication, where appropriate, or the relevant passages	Relevant to claim No.
Х	JOURNAL OF IMMUNOLOGY., vol. 148, no. 12, 15 June 1992 (1992-06-15), pages 4012-4020, XP002309573 USTHE WILLIAMS AND WILKINS CO. BALTIMORE. the whole document	1-19, 23-28
X	JOURNAL OF IMMUNOLOGY., vol. 162, no. 10, 15 May 1999 (1999-05-15), pages 6155-6161, XP002309574 USTHE WILLIAMS AND WILKINS CO. BALTIMORE. the whole document	1-19, 23-28
x	JOURNAL OF VIROLOGY., vol. 75, no. 12, June 2001 (2001-06), pages 5526-5540, XP002309575 USTHE AMERICAN SOCIETY FOR MICROBIOLOGY. the whole document	1-19, 23-28
(PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA., vol. 89, May 1992 (1992-05), pages 3879-3883, XPO02309576 USNATIONAL ACADEMY OF SCIENCE. WASHINGTON. the whole document	1-19, 23-28
	JOURNAL OF VIROLOGY., vol. 75, no. 14, July 2001 (2001-07), pages 6692-6699, XP002309577 USTHE AMERICAN SOCIETY FOR MICROBIOLOGY. cited in the application the whole document	1-19, 23-28
	BIOCONJUGATE CHEMISTRY., vol. 15, 2004, pages 112-120, XP002309578 USAMERICAN CHEMICAL SOCIETY, WASHINGTON. page 112	1-19, 23-28
	WO 94/29339 A (CONNAUGHT LABORATORIES) 22 December 1994 (1994-12-22) the whole document	1-19, 23-28
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INTERNATIONAL SEARCH REPORT

ational application No. PCT/GB 03/05436

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 20-22. 25(partially) 29 because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 25 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: 20-22, 25, 29 because they relate to parts of the International Application that do not compty with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claim 25 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 20-22, 25, 29

Present claims 20-22, 25 (partially) and 29 relate to products and method based thereon defined by reference to a desirable characteristic or property, namely to be an antibody identified by its binding to a The claims cover all products and methods given antigen. having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products and methods/apparatus. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product/compound/method/apparatus by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the methods as indicated in claim 25 and dependent on claims 1-12. Claims 20-22 and 29 have not been searched at all.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Inte and California P(. . _ 3 03/05436

Patent document dited in search report		Publication date		Patent lamily member(s)	Publication date
US 5185147	A	09-02-1993	NONE		
US 5750332	A	12-05-1998	AT AU AU CA DE EP WO	177843 T 695450 B2 1684495 A 2181590 A3 69508382 D3 0740792 A3 9520162 A3	08-08-1995 1 27-07-1995 1 22-04-1999 1 06-11-1996
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